

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Debasis Majumdar, et al

SMECTITE CLAY
INTERCALATED WITH
POLYETHER BLOCK
POLYAMIDE COPOLYMER

Serial No.

Filed

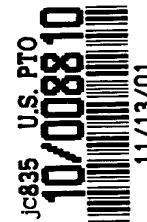
Commissioner for Patents
Washington, D.C. 20231

Group Art Unit:

Examiner:

Express Mail Label No. EL656967309US

November 13, 2001
Date



E.H. 9.
6/28/02
-#2

Sir:

INFORMATION DISCLOSURE STATEMENT FOR CONSIDERATION
BY THE OFFICE UNDER 37 C.F.R. 1.97-1.99

Enclosed herewith are patents and/or publications for consideration by the Patent and Trademark Office in regard to the invention claimed in the above-described application. In compliance with §1.56, such documents are listed in the enclosed Form PTO-1449.

Applicants request that the Patent and Trademark Office make of record the above-identified documents. Unless otherwise indicated, a full text copy of each document is attached. For documents not in English, an English translation or an equivalent English language patent or publication is attached. Where a translation is not available, a concise explanation of the relevance of each document not in English is included either here or in the specification.

This Information Disclosure Statement is submitted according to the following selected paragraph:

- I. ☒ This Statement is being filed under §1.97(b) within three months of the filing date of the application (other than a CPA), or before the first Office action on the merits or before mailing of a first Office action after the filing of a request for continued examination.
- II. ☐ This Statement is being filed under §1.97(c), with fee, **prior** to either a final action, a notice of allowance or an action that otherwise closes prosecution in the application. Please charge the fee required by §1.17(p) to Eastman Kodak Company Deposit Order Account Number 05-0225. A duplicate copy of this Statement is enclosed.

III. ☐ This Statement is being filed under §1.97(c), with a statement under, §1.97(e) **prior** to either a final action, a notice of allowance or an action that otherwise closes prosecution in the application. The undersigned hereby states that (check one):

☐ each item of information contained in this Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Statement.

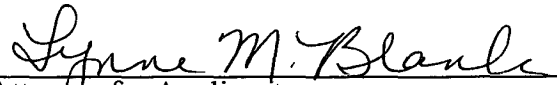
☐ no item of information in this Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing this certification statement under §1.97(e) after making reasonable inquiry, no item of information contained in this Statement was known to any individual designated in §1.56(c) more than three months prior to the filing of this Statement.

IV. ☐ This Statement is being filed under §1.97(d), with fee and statement under §1.97(e), on or after the mailing date of either a final action, a notice of allowance (but prior to payment of the issue fee) or an action that otherwise closes prosecution in the application. Please charge the fee required by §1.17(p) to Eastman Kodak Company Deposit Order Account No. 05-0225. A duplicate copy of this Statement is enclosed. The undersigned hereby states that (check one):

☐ each item of information in this Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Statement.


☐ no item of information in this Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing this certification Statement under §1.97(e) after making reasonable inquiry, no item of information contained in this Statement was known to any individual designated in §1.56(c) more than three months prior to the filing of this Statement.

Respectfully submitted,



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Enclosures

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE If AFTER the later date of the first Office Action or 3 months from filing, use only with Rule 97(E) Certificate or Fee LIST OF ART CITED BY APPLICANT <i>(Use several sheets if necessary)</i>		Atty. Docket No. 82857LMB Customer No. 01333		Serial No. <div style="text-align: center;">  10/008810 11/13/01 </div>	
Applicant: Narasimharao Dontula, et al		Filing Date		Group	

U.S. PATENT DOCUMENTS						
Examiner Initial*	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	4,115,475	09/19/78	Foy et al.			
	4,195,015	03/25/80	Deleens et al.			
	4,208,493	06/17/80	Deleens et al.			
	4,230,838	10/28/80	Foy et al.			
	4,238,582	12/09/80	Deleens et al.			
	4,252,920	02/24/81	Deleens et al.			
	4,331,786	05/25/82	Foy et al.			
	4,332,920	06/01/82	Foy et al.			
	4,739,007	04/19/88	Okada et al.			
	4,810,734	05/07/89	Kawasumi et al.			
	4,839,441	06/13/89	Cuzin et al.			
	4,864,014	09/05/89	Cuzin et al.			
	4,894,411	01/16/90	Okada et al.			
	5,102,948	04/07/92	Deguchi et al.			
	5,164,440	11/17/92	Deguchi et al.			
	5,164,460	11/17/92	Yano et al.			
	5,248,720	09/28/93	Deguchi et al.			
	5,385,776	01/31/95	Maxfield et al.			
	5,514,734	05/07/96	Maxfield et al.			
	5,578,672	11/26/96	Beall et al.			
	5,637,407	06/10/97	Hert et al.			
	5,703,161	12/30/97	Steenblock et al.			
	5,747,560	05/05/98	Christiani et al.			
	5,804,613	09/08/98	Beall et al.			
	5,807,796	09/15/98	Degrand et al.			
	5,830,983	11/03/98	Alex et al.			
	5,880,197	03/09/99	Beall et al.			
	5,939,183	08/17/99	Kuratsuji et al.			
	5,951,494	09/14/99	Wang et al.			
	5,973,053	10/26/99	Usuki et al.			
	5,998,545	12/07/99	Melot et al.			
	6,063,505	05/16/00	Kuratsuji et al.			
	6,133,375	10/17/00	Betremieux et al.			
	6,183,382 B1	02/06/01	Kim et al.			
	6,203,920 B1	03/20/01	Bouilloux et al.			
	6,217,548 B1	04/17/01	Tsugita et al.			
	6,221,042 B1	04/21/01	Adams			

6,251,128 B1	06/2001	Knopp et al.				
FOREIGN PATENT DOCUMENTS						
Examiner Initial*	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)						
	A. Okada et al., Polym Prep., 1987, Vol. 28, pages 447-448					
	Rachel Levy and C.W. Francis, Journal of Colloid And Interface Science, March 1975, Vol. 50 (3), 442-450					
	D.J. Greenland, Journal of Colloid Science, Vol. 18, 1963, pages 647-664					
	Richard A. Vaia et al., New Polymer Electrolyte Nanocomposites: Melt intercalation of polyethyleneoxide in mica type silicates, Advanced Materials, 7(2), 1995, pages 154-156					
	V. Mehrotra, E.P. Giannelis, Solid State Communications, 1991, Vol. 77, No. 2, pages 155-158					
	Ed. T.J. Pinnavia and G.W. Beall, John Wiley & Sons, Ltd. Publishers, Polmer-Clay Nanocomposites, 2000					
	H. van Olphen, John Wiley & Sons, Ltd. Publishers, An Introduction To Clay Colloid Chemistry, 1963, 1977					
	Co-pending USSN 09/_____, Dontula et al., <i>Ethoxylated Alcohol Intercalated Smectite Materials</i> (D-82056)					
	Co-pending USSN 09/_____, Nair et al., <i>Polyester Nanocomposites</i> (D-82858)					
	Co-pending USSN 09/_____, Dontula et al., <i>Article Utilizing Block Copolymer Intercalated Clay</i> (D-82859)					
EXAMINER			DATE CONSIDERED			
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.						